

*It's Only Natural to  
Protect Your Software*



The Activator/M is Software Security's most versatile security platform. In addition to the Activator's dual-locking ASIC, you now have a full kilobit of non-volatile memory at your disposal.

The ability to program this memory on the fly opens a number of software control and security possibilities, such as:

**Count up and count down**

**Password**

**Critical program execution information**

**Date control**

**Encryption keys**

**Proprietary algorithms**

**Multiple module and version updating**

The potential is unlimited. You now have a way of saving a piece of memory and restoring it later without end-user intervention.

### **FEATURES**

- ◆ On-Board memory - Programmable, *on-the-fly* memory allows for advanced security implementations.
- ◆ Programmable - Perfect for serialization, multi-module, and multi-package protection.
- ◆ Transparent - Does not inhibit printer or port operation. Users are unaware of its presence after installation.



*With one kilobit  
of "on-the-fly,"  
programmable,  
non-volatile  
memory.*

- ◆ Custom ASIC - Provides speed and prevents circuit duplication.
- ◆ Secure - "One-Write" option prevents internal code tampering.
- ◆ Reasonable Protection - Make as many backups as desired. Normal hard disk and LAN operation.
- ◆ Portable - Easily moved from machine to machine.
- ◆ Patented - No "work-alikes" may be mass marketed.
- ◆ Custom Security - You make it as simple or as complex as the situation calls for. No "black box" solutions.
- ◆ No Batteries - No batteries or external power sources required.
- ◆ OS/2 - Runs under OS/2





Out-board hardware protection for software has proven to be a workable method of controlling program execution.

By removing protection from the magnetic media we remove the constraints that have plagued legitimate users.

They simply attach our key to the parallel port and forget it. The Activator is totally transparent, but the software will not run without it.

Software Security's Activator provides the most versatile method of implementing protection. The Activator/M adds power to that versatility.

### How They Work

In order to access the Activator/M's memory, the programmer must first access the security ASIC portion of Activator/M.

Using any language that reads and writes directly to the parallel port, the programmer transmits apparently random bytes to the Activator or Activator/M. These bytes increment or decrement a set of counters on the device.

The counters are divided into two sections. The Product ID side is programmed at the factory with your unique code. There are over a quarter million possible codes.



The "Field Programmer" allows developers to encode their own proprietary information into the custom side of the Activator/M.

The other section is the Custom ID side, which contains selectors or filters. These values can be programmed by us to your specifications, or the developer can use the optional field programming unit to program the filters "in-house."

The Activator/M may be accessed incrementally, decrementally and in an AND/OR mode. By combining these and other features, the device need not respond in the same way to every interrogation.

And since you need not perform the entire interrogation at one time, every input does not produce an output. Because of these combined features - the delayed response and the absence of fixed algorithms - it is very difficult to predict when and where the response will be coming from.

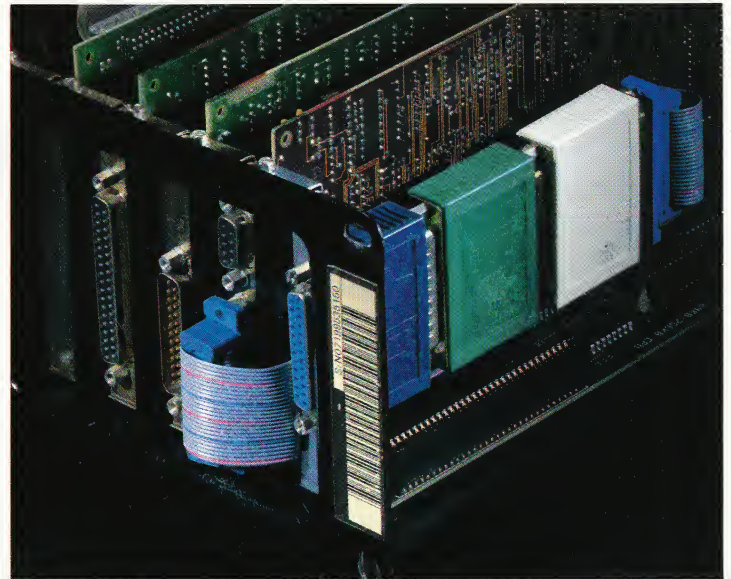
### M Power

When the Activator/M reaches the proper value, the programmer has the option of having the Activator/M return a signal or remain dormant. At that time the Activator/M's kilobit of memory is available to the programmer.

This enhances the security of the device by making it even more difficult for potential pirates to reverse-engineer the process. The programmer may then read, write, or re-lock the memory at any time during program execution.

The Activator/M is available in multi-write mode or optional "One-Write" mode. This means that the counters may only be set once. From then on, no one can alter them, even with a field programmer.

### The Activator/M



A special optional bracket allows Activators and Activator/M's to be installed inside the case to deter theft and tampering.

### Technical Specifications

No batteries or external power supply required.

Totally transparent to the parallel port.

Daisy-chainable up to 10 units.

ESD protected to 2000v.

Ambient operating temperature 0° to 70° C.

Humidity 0 to 100% without condensation.

Dimensions 9/16" h, 2 1/8" l, 2 1/4" w Weight 1oz.



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